

#### water & sanitation

Department: Water and Sanitation REPUBLIC OF SOUTH AFRICA

#### **DRAFT National Groundwater Strategy**

- Input to Stakeholder Consultations 2016

#### Department of Water and Sanitation

Jointly with Water Research Commission

Eastern Cape, 26 July 2016





NGS

# **Download of NGS document**

- www.dwa.gov.za/Groundwater/NGS2016.aspx
- Email: NGS@dws.gov.za

## **Project Status**

Information Product / Activities	Date	Status	
Inception Report	Aug 2015	Completed	
Biennial Groundwater Conference	Sep 2015	Completed	
National Groundwater Strategy, Draft 1	Nov 2015	Completed	
National Groundwater Strategy, Draft 2	Jan 2016	Completed	
National Groundwater Strategy, Draft 3 and 4	Feb –Apr 2016	Completed	
9 Provincial Workshops	May-Aug 2016	Busy	
National Groundwater Strategy, Draft 5	Sep 2016	Planned	
National Indaba	Nov 2016	Planned	
National Groundwater Strategy, Final	Dec 2016	Planned	

## Why a National Strategy for Groundwater?

**Experience** (own and world-wide): development of effective approaches for groundwater management will require a long term process through which viable national, regional and local systems can evolve. <u>A national strategy is required to:</u>

- To let the full role/potential of groundwater towards water security in SA unfold.
- To establish a framework within which stakeholders at all levels can become an essential part of good groundwater governance in SA.
- To initiate a long-term process of rolling out sustainable groundwater utilization within IWRM.
- This is fully in line with the direction of the DWA Functional Management Committee 2/2011

## Background and Process followed with the Groundwater Strategy Functional Management Committee

- Presented DWA Functional Management Committee 2/2011 (28 February 2011)
- Accepted with the following recommendations:
  - The Groundwater Strategy should not be published as a final strategy,
  - Instead *inter alia*, a public-participation process to solicit comments on the strategy is initiated, and
  - Roles and responsibilities of the wider sectors in relation to groundwater management, water security, future exploration, transboundary aquifers, etc. should be clarified and drafted more clearly.

## **Stakeholder Interaction 2016**

 Meeting individual stakeholder representatives (mining, agriculture, energy, local government, rural development)

How to find / how to sustain relationship ??

 Regional meetings with spectrum of stakeholders (including provinces and CMAs)

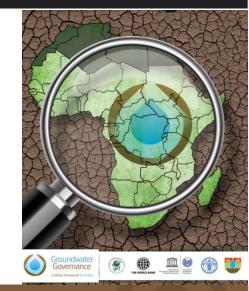
How to build on DWS stakeholder network and initiate communication / awareness-building??

Global Groundwater Governance - A Framework for Action (2015)

# Partners: UNESCO, GEF, FAO, World Bank,

## **Series** of 3 Outcome Documents

- Global Diagnostic
- A Shared Global Vision for 2030
- Global Framework for Action



#### Groundwater Governance Project A Global Framework for Action

#### The project

The Groundwater Governance project is a 3-year initiative (2011-2014) designed to address emerging global concerns on groundwater resources management.

It is funded by the Global Environment Facility (GEP) and is jointly executed by the Food and Agriculture Organization of the United Nations (FAO), the United Nations Educational, Scientific and Cultural Organization (UNESCO), the World Bank and the International Hydrological Association (IAH).



#### Objectives



The project is designed to increase awareness of the paramount importance of sound groundwater resources management to tackle the global water crisis. It intends to identify and promote best practices in groundwater governance as a way to achieve the sustainable management of groundwater resources.

#### Expected outputs

The project will develop a Global Framework for Action consisting of a set of general principles and guidelines for policy-makers and stakeholders, including policy options, laws, regulations and customary practices.

A Shared Vision on Groundwater Governance based on case studies, thematic papers and a Global Groundwater Diagnostic integrating experiences and information collected from a series of regional consultations around the world, will inform the design of the Global Framework for Action.

Targeted outreach events will be organized to promote the results of the Project and the Global Framework for Action.

roundwater Governance



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#### **Strategic Framework for Groundwater Governance**

"Governance is the operation of rules, instruments and organisations that can **align stakeholder behaviour and actual outcomes with policy objectives**."

#### **Enabling** Environment / Policy level

Processes by which a nation establishes its **objectives** for groundwater, **integrates** those policies with water, land and environmental policies, and **aligns and harmonises** them with other related **policies** affecting groundwater.

#### Strategic / National level

**Institutions and instruments** designed by a nation to align stakeholder behavior and actual outcomes with policy objectives. These include planning, regulation, economic instruments, institutional development and information management.

#### Local level

**Organisations and institutions that control actual outcomes on the ground** and respond (in varying degrees) to the rules and incentives from strategic level governance. This level includes the individual groundwater users, local collective management institutions and relevant public agencies.

Global Groundwater Governance Initiative (2012)

## **From Principles to Management Tools**

Example: NSW (Australia) Groundwater Policy Framework, 1997

• Groundwater management plans where necessary

(high and over-exploitation ~ 20 for State)

- Groundwater Management Committees
- Supporting guidelines for local government and industry;
- Creation of aquifer resources and vulnerability maps;
- An education strategy;
- Legislative mechanisms for groundwater management;
- Licensing tools and conditions for users that better reflect resource protection objectives;
- Economic instruments applicable to groundwater management.
- Extensive monitoring to support adaptive management

### National Groundwater Strategy Framework

#### National Level (enabling environment)

- 0. Enabling legislation and strategy (is in place)
- 1. Stakeholder-driven development
- 2. National Groundwater Leadership

National / Provincial (Basin) Level

- 3. Responsive groundwater regulatory framework
- 4. Groundwater resource protection
- 5. Sustainable groundwater resource utilization
- 6. Appropriate institutional development
- 7. Redirecting finances
- 8. Groundwater resource planning and development
- 9. Groundwater information management
- 10. Regional and international partnerships
- 11. Water sector skills and capacity

Local (District / Aquifer) Level

12. Local level action

## 1. Stakeholder-driven development

- Objectives: Continuously improve stakeholder understanding and collectively agree on and work within an expanding framework of local level participative management and 'good' groundwater governance.'
- Preamble of NWA, 1998: Recognising the need for the integrated management of all aspects of water resources and, where appropriate, the delegation of management functions to a regional or catchment level so as to enable everyone to participate.
- **Current challenges:** Despite the good intent of the Act, stakeholder involvement, a critical requirement, is still virtually completely missing for groundwater resources.

## 1. Stakeholder-driven development Strategic Actions

#### DWS commitment

Commitment to policy innovation with stakeholder participation to guide and carry out the groundwater institutional development process

#### Institutional development

A long-term process from strategic analysis to step-wise institutional development and the wider implementation of improved groundwater resource management

#### Groundwater awareness-raising

A major ongoing awareness campaign at all levels during the long-term process. An important role for the academic sector to support the other sectors with capacity-building and skills- training programmes.

#### Groundwater Trust

A strategic step to mobilise the groundwater sector / industry as a whole to develop and lead the multilevel awareness and education campaign.

# 2. National Groundwater Leadership

 Objectives: Develop and maintain the national groundwater champion that must hold the overall groundwater governance framework together and facilitate and support its roll-out, smooth functioning and growth.

#### Challenges:

There is still limited understanding at DWS decision-making level on the long-term role and unique and critical governance requirements of groundwater resources.

At present, the country lacks the depth in skills and leadership in hydrogeology to drive the understanding and acceptance of groundwater from national down to local management level.

## 2. National Groundwater Leadership Strategic Actions

## Groundwater governance unit

Establishment of such a unit at DWS has in principle approval.

A task description as soon as possible. Focus on an appropriate structure as well as the necessary coordination processes.

Foresee a 'governance center' which could draw on the resources of other institutions to fulfil the evolving, wide range of its responsibilities.

## Needs and Constraints Assessment

together with stakeholders, to analyse potential impediments to the management process (e.g. weak regulatory enforcement, lack of social consensus, poor inter-institutional coordination, lack of adequate information) and define ways of confronting them.

# 7. Redirecting Finances

**Objectives:** Redirect incentive policies and public expenditures impacting groundwater by and within different sectors to achieve a combined, much stronger focus on sustainable and efficient groundwater management.

Challenges: Lack of finance could become a serious bottleneck

to the implementation of the groundwater governance framework, particularly because of groundwater's 'private water', neglected, and under-valued status.

International experience obtained from the Global Groundwater Governance Framework completed recently was included in the proposed actions.

# 7. Redirecting Finances Strategic Actions

### Align groundwater finance

Align all public groundwater finance with the new priorities.

Address financing as a high priority.

Alignment particularly important between different sectors, e.g. farming, fuel and electricity subsidies could counter groundwater over-use control.

The systems of regulations and incentives should encourage private investment in sustainable groundwater management.

in this regard.

#### Invest in governance

Funding of groundwater governance must be in line with its strategic importance. The basic groundwater management functions should not be compromised. Legal instruments and regulatory provisions must be

matched by the means required for their implementation.

Develop investment portfolios to encourage private investment.

**Improve** efficiency of charging for groundwater use

## Questions

- In the proposed framework, have we missed an important strategy theme(s)?
- In your view, how would real and sustained stakeholder engagement take place?
- How do you see your sector owning, implementing and achieving the Strategic Objectives/Actions?
- Could you see a type of Groundwater Trust function and be sustained in our institutional situation?
- Do you agree that the strategy needs strong national government leadership?
- How could such capacity be established, given the capacity distribution we have in the country at present?
- Any thoughts how finances could be (re) directed towards the increasing groundwater priority

# 3. Responsive groundwater regulatory framework

**Objectives:** Anchor the shared understanding of groundwater

governance in appropriate policy and regulations that will enhance sustainable and efficient use of groundwater resources. (taking into account the unique characteristics of groundwater that have a bearing on its sustainable development and management (ubiquitous occurrence, many users, open access and invisible nature, complex physical characteristics, availability of natural storage).

**Challenge:** At this stage there is no national groundwater

management policy which lays down norms and standards to guide regional and local groundwater management practices.

## Responsive groundwater regulatory framework Strategic Actions

- Valuation of groundwater resources (to become std. practice)
- Groundwater norms and standards (to guide groundwater management and become regulated Best Practices)
- Policy coordination (in terms of the principle of integrated land,
- water and environment management)
- Groundwater use authorization (review in terms of implementation experience)
- Groundwater use verification (this and licence compliance monitoring needs to be implemented as high priority)

## Responsive groundwater regulatory framework Strategic Actions (2)

- Aquifer management (in identified priority aquifers by aquifer management committees, based on appropriate guidelines and regulations)
- Regulated groundwater use (Specific regulations for all sectors using and impacting groundwater; priority for domestic use; involvement of professional hydrogeologist etc)
- Regulation of the groundwater industry (mix of voluntary regulation by the industry and agreed national regulation)

## 4. Groundwater resource protection

**Objectives:** Develop and maintain approaches for pro-active protection of groundwater resources and aquifer-dependent ecosystems to secure a sustainable supply of water for human survival and socioeconomic development, while maintaining essential groundwater environmental services (based on the vulnerability and regional / local importance of aquifers).

#### Challenges:

No assessment of country-wide pollution of aquifers available;

RDM measures have to date achieved no practical

groundwater resource protection despite considerable investment;

Protection of highest priority groundwater supplies for domestic use completely neglected to date.

## Groundwater resource protection Strategic Actions

- Policy and Strategy for Groundwater Quality Management (implement widely consulted policy of 2000)
- Groundwater pollution assessment (undertake national assessment)
- Public awareness (make a key instrument of precautionary approach)
- Groundwater use verification (achieve within 3 years)
- Groundwater-use authorization (use conditions to achieve resource protection)
- Resource-directed measures (urgently review methodology)
- Regulation and prohibition of land-based activities (develop suite of regulations and guidelines / best practices to underpin these)
- Cross-sector collaboration (formalise)

## 5. Sustainable groundwater resource utilization

**Objectives**: Translate practical understanding of groundwater resources into appropriate guidance material to fully capacitate those responsible at all levels for sustainable groundwater resource utilization, covering planning, development, management and protection (Groundwater source development; protection; **Conjunctive** use; Artificial recharge; Operation and maintenance) **Challenge:** Still widespread lack of understanding about the unique characteristics of groundwater that have a bearing on its appropriate utilization, management and protection; No special management/protection for country's most vulnerable aquifers, the dolomitic aquifer systems and the coastal aquifers. Serious degradation of these important resources has taken place.

Existing guidelines have found little practical application.

## Sustainable groundwater resource utilization Strategic Actions

- Sustainable utilisation objectives and plans (with the relevant stakeholders)
- Review / development of guidelines (a series of official, widely available and regularly reviewed guideline documents)
- Training programmes in support of guideline implementation
- Inter-departmental cooperation (through formal agreements and
- focused guidelines)
- Ongoing auditing and awareness-raising (through formal agreements and focused guidelines; use of updated BlueDrop assessment)
- National capacity for groundwater governance (essential)
- Local Hydrogeologist (District and Local municipalities' to appoint/contract/share a hydrogeologist to manage their aquifers, if necessary in terms of appropriate regulation.)

## 6. Appropriate institutional development

**Objectives:** Develop, facilitate, capacitate and support appropriate institutions that will allow effective local level participative management of groundwater resources.

### **Challen**ges:

- Weak groundwater function in national government at a time when new groundwater capacity has to be built in CMAs, local government, and local management institutions.
- The devolution of water resource management to lower levels is taking much longer than expected (CMAs etc.).
- Groundwater is lagging far behind surface water resources in terms of local institutional development.
- Lack of capacity in municipalities a major threat to sustainable development of groundwater resources.
- Next 10-20 year period will be particularly challenging, moving from highly centralized to new, functional, highly participative institutions

## Appropriate institutional development Strategic Actions

A strategic governance framework (accepted way to integrated water resources management implementation; agreed with stakeholders)

Capacitating municipalities (new functions / institutions supported with capacity development; work through whole sector)

**Compliance with existing government requirements** (compliance **monitoring**; groundwater infrastructure in asset registers; Blue Drop)

**Communication / awareness-raising** (find champion in each sector who sees groundwater management issues within the municipal environment)

Local participative management institutions (Systematically develop, capacitate and support local management institutions -monitoring committees aquifer management committees and water user associations)

National sector support for local management (identify and strengthen within-sector support structures and processes which could facilitate local-level management by that sector)

# 8. Groundwater resource planning and development

**Objectives:** Achieve integrated groundwater resource planning at national, regional and local levels that will fully and sustainably establish the unique potential of groundwater for socio-economic development.

Integration at three effective levels:

- within the hydrological cycle (the physical processes);
- across land and water, across river basins (catchments) and aquifers (spatial integration);
- across the overall social and economic fabric from national to local level.

#### **Challen**ges:

- Groundwater is not incorporated into regional / local level water development plans, or else treated a last resort, during emergencies;
- Despite groundwater's crucial role in drought preparedness and emergency response, this has not yet been mainstreamed into on-going planning and development processes.

## Groundwater resource planning and development Strategic Actions

**Groundwater priority** (worked into all instruments of planning and financing, eg. Treasury instructions )

Macro planning (planning beyond resource reconciliation issues, to also address regulatory support and human / institutional capacity requirements)

Catchment management strategies (include a groundwater management plan; integrated approach)

Best Practice Guidelines (for all sectors, regulated where necessary)

# Groundwater resource planning and development

#### **Strategic Actions (2)**

Drought risk management (plans for monitoring and targeting drought-proofing measures during and ahead of droughts)

Stakeholder involvement in planning (formally establish a process)

Groundwater information (Appropriate information is often the bottleneck in planning, eg existing groundwater infrastructure and cost requirements)

Groundwater development (Systematic groundwater resource assessment and development programmes, eg. for Comprehensive Rural Development Programme; for areas with threats of water shortages)

# Questions

- In your view, what are some of the critical groundwater issues requiring regulation?
- Do you think our groundwater industry needs some form of regulation - suggestions? Self-regulation?
- How would you see achieving protection of widely distributed groundwater resources? Quality / Quantity?
- Where do you see groundwater still very much misunderstood and inappropriately used/managed suggestions for improvement?
- How do you see groundwater professional expertise being introduced to the local level management?
- What kind of institutions do you foresee at shared aquifer level and how should they be supported nationally/regionally?
- Do you see ways how higher level planning can better enable local groundwater development and management? How could this work into catchment management plans?
- Do you see links between groundwater resource planning and assessment – how could they work together in practice?

## 9. Groundwater Information Management

'No sustainable development of a scarce natural resource is possible without understanding the resource and managing it wisely according to this growing understanding' (Minister of Water Affairs, Ronnie Kasrils, 2003).

To transform water management in South Africa from a highly centralized to a strongly devolved and participative approach, information management will become a strategic requirement. A rapidly increasing number of stakeholders will have to provide groundwater data and will need information support.

### **Challen**ges

Continued undervaluation of groundwater resources

Geohydrology unit in DWS disbanded in 2003.

No more regional exploration and no more DWS drilling

Most groundwater info generated not on national data base

## Groundwater Information Management Strategic Actions

Appropriate groundwater knowledge base (address strategically as part of a groundwater Research & Development plan)

Groundwater data and information (address strategically with stakeholders; a specialized support facility like the Computing Centre for Water Information could be considered)

Groundwater monitoring strategy (focused monitoring for different purposes, e.g. water use authorization, resource protection and planning; integrated with surface water monitoring)

Groundwater use information (regulations regarding compliance uploading of info)

Centralized "private" data (expand national groundwater data archives with data from private consultants and drillers)

Related data from other institutions (rainfall, mining; support the effort)

## Groundwater Information Management Strategic Actions (2)

Harmonisation of data bases / information systems (Improve accessibility and exchange of data, standardization of data capturing formats for various purposes, reporting of data and information)

Integrated information service (GISsupported information service at municipal and aquifer management level)

Knowledge sharing (ever wider sharing, archiving and effective communication of information and knowledge products; WRC the lead organization.)

Groundwater use and infrastructure information (extend GRIP programme in all regions; Stop wastage of groundwater infrastructure)

Monitoring as part of aquifer management (aquifer monitoring and modelling as integral part of aquifer management)

National State of Water Resources Reporting (streamlined, integrated)

## **10.** Regional and international partnerships

#### **Objectives**

Actively participate in and grow appropriate regional and international partnerships towards groundwater resource understanding and optimal utilization, including transboundary resource management.

#### **Principles**

Sharing knowledge and experience across boundaries has the potential to accelerate our learning processes significantly. It improves efficiency, stimulates development and reduces the probability of making wrong decisions.

#### **Challen**ges

Before 1994, South Africa had been in international isolation. The water sector has not yet fully responded to the opportunities offered by international collaboration.

## Regional and international partnerships Strategic Actions

- SADC and Africa (SA an active role in the SADC Groundwater Programme AMCOWs Africa Groundwater Commission)
- Basin Commissions (take groundwater fully on board)
- UNESCO International Hydrological Programme (national leadership from DWS for active participation)
- International Association of Hydrogeologists (IAH) (seek widespread membership of South African groundwater professionals; seek deal with employers and with IAH)
- Groundwater Division (should become sector leader coordination for scientific links with Africa)

## 11. Water sector skills and capacity

#### **Objectives**

Develop and maintain skills and capacity for the sustainable development and management of groundwater resources at all management levels and with participation of all stakeholders as part of a long-term, ongoing process.

#### **Principles**

It is important that all levels of capacity development must be addressed, the individual, the institutional and societal levels – towards a well-performing groundwater sector.

It is important to have ways to **measure capacity and monitor progress** in its development.

### **Challen**ges

Seriously missing the public sector as a major player in capacity building and mentoring;

Complete lack of capacity within municipalities for local management;

Vulnerable capacity situation in groundwater academic sector

## Water sector skills and capacity Strategic Actions

Capacity gap analysis (within emerging groundwater governance

framework; linked to the groundwater research planning of WRC and to capacity building initiatives in different sectors)

**DWS lead role** (as identified in NWRS; use of PSP contracts to leverage capacity-building)

**WRC leveraging role** (build networks of people and technology across institutional borders)

**FET-Water** (strong emphasis to achieve stakeholder cooperative projects) **Academic institutions** (from single discipline to grooming 'broader' professionals )

**Private sector ro**le (much larger role in education and training; Groundwater Division a mobilizing role)

SA Groundwater Center of Excellence (industry-supported virtual centre)

# Water sector skills and capacity

**Strategic Actions (2)** 

- **Technical Education & Training** (a rethink needed on role of universities and technical universities to cater for different capacity gaps)
- **Professional registration** (system of required Continued Professional Development; greater role for DWS Learning Academy)
- Long-term relationship: government / academic institutions (anchored in agreements of sustainable cooperation)
- Public/private sector partnerships (private sector role in capacity building at local level during transition period)
- Stakeholder involvement (systematic involvement of all stakeholders,)
- International cooperation (capacity development linked to regional cooperation objectives of DWS and WRC )
- Capacity building indicators (measure and monitor capacity development)

# Questions

- Where do you see the biggest shortcoming in groundwater resource assessment and information management at this stage?
- How can centralizing of private groundwater data become a win-win situation?
- Do you see any groundwater-related priority in Africa and international partnerships – how can we achieve and share the benefits?
- Do you see ways to overcome the large groundwater capacity gap in the public sector?
- Can you see a larger role for the private sector in education and training – how?

## **Local Action**

#### **Principles**

The unique, widely distributed groundwater resource, with its open access to a large number of users and a wide range of impacts, requires local level management of the shared groundwater resources within an appropriate enabling and supporting environment.

#### Situation Assessment

Very little groundwater local action has happened in South Africa to date. Key reasons for this are the slow establishment of catchment management agencies, the lack of national regulation in this regard and lack of sustained support for the establishment and capacitating of appropriate local management institutions.

Experience gained in the Global Groundwater Governance initiative has been consulted widely for possible strategic actions at this level.

## Local Action Strategic Actions

#### **Aquifer** management

Users of a shared aquifer resource have to implement detailed planning, implementation of regulations, demand / supply-side measures, resource / source protection, and groundwater use / resource monitoring.

#### Action by municipalities

Local governments are uniquely positioned to foster integration between land management and groundwater management and protection. As such they should support integration of land use planning and groundwater management; also achieve integrated management of the subsurface zone.

#### **Action** from utilities

Water utilities – source protection, waste water management; Energy utilities - achieve water conservation goals through energy pricing

## **Local Action**

#### **Strategic Actions (2)**

#### **Action from Other State Institutions**

Schools, Clinics, Community Gardens, etc. – own operation and advocacy Action from private sector players

<u>Small farmers</u> - develop and operationalize institutional measures for self-regulation and local collective management

Larger agricultural ventures – achieve good groundwater management through linkages like certification and labelling of sustainable practices

<u>Industries -</u> major users that can be called on to conserve groundwater and protect quality

Mining companies - share the same subsurface space as groundwater

Users; share data and be responsible users in terms of pollution, safety and

geological disturbance. Share community benefits.

Energy – increasing groundwater use, green groundwater?

## **Local Action**

#### **Strategic Actions (3)**

#### Action by media and civil society

Making the case for the need to govern and manage groundwater; wider public discussion could trigger citizen initiatives, increase political support and strengthen the motivation of those directly involved to act on the issues. Act as watchdog on bad practices.

## Questions

- What type of local best practice and management do envisage for groundwater?
- How could its introduction be facilitated and speeded up?
- Do you see more practical / realistic ways to roll out this strategy?
- What role could you / your sector play in moving improved groundwater governance forward

## Way forward - 2016

- Achieve buy-in from key stakeholders and produce a national strategy;
- Achieve DWS acceptance by adopting and linking NGS into the National Water Resource Strategy.
- Establish a stakeholder core group to guide implementation of NGS.
- Agree on critical deliverables with stakeholders with mutual commitment and monitoring (see concluding table in NGS)

#### Table 1: Critical Deliverables for National Groundwater Strategy

Deliverable	Implementation (Year 1-10)			Financial Implication*	Responsibility	
Stakeholder Communication in place					Once-off	DWS, WRC
Critical Assessments undertaken (Themes 4,9, 11)					Once-off	DWS, WRC
Strategic Governance Framework agreed					Once-off	DWS, Sector
National Champion functional					Annual	DWS
Groundwater regulations drafted					Once-off	DWS
Groundwater Trust established					Annual	GW Sector
Municipal GW Management framework					Once-off	DWS, DLG
Groundwater regulations published					Once-off	DWS
Revised Groundwater RDM in place					Once-off	WRC, DWS
Guidelines & training pgms for Municipalities.					Once-off	DWS, WRC
15% GW Management Institutions in place					Once-off	DWS, CMAs
National Information System functional					Annual	DWS, WRC
5 groundwater protection zonings in place					Once-off	DWS, Munps.
Shared GW COE of Excellence functional					Annual	
40% GW Management Institutions in place					Once-off	DWS, CMAs

\*Cost estimates will be included in time

A detailed action plan must be developed together with key stakeholders. A prototype has already been developed by the Department of Water and Sanitation, listing current actions, future actions and responsibilities under the different strategy themes.

# Questions

- In the proposed framework, have we missed an important strategy theme(s)?
- How would you like to be beneficially involved in the process over the next few years?
- How could real responsibilities be taken up by different sectors as a joint strategy is rolled out?
- What critical deliverables do you see as your sector and in general?
- What kind of report could give you a sense of progress with the NGS implementation?